

# ONKYO® SERVICE MANUAL

## Integrated Stereo Amplifier MODEL A-RV400, A-RV400M



|           |                         |
|-----------|-------------------------|
| UD        | 120V AC, 60Hz           |
| UG        | 220V AC, 50Hz           |
| UQ (A, B) | 240V AC, 50Hz           |
| UW        | 120V/220V AC, 50Hz/60Hz |

### SAFETY-RELATED COMPONENT WARNING!!

COMPONENTS IDENTIFIED BY MARK  $\Delta$  ON THE SCHEMATIC DIAGRAM AND IN THE PARTS LIST ARE CRITICAL FOR RISK OF FIRE AND ELECTRIC SHOCK. REPLACE THESE COMPONENTS WITH ONKYO PARTS WHOSE PARTS NUMBERS APPEAR AS SHOWN IN THIS MANUAL.

MAKE LEAKAGE-CURRENT OR RESISTANCE MEASUREMENTS TO DETERMINE THAT EXPOSED PARTS ARE ACCEPTABLY INSULATED FROM THE SUPPLY CIRCUIT BEFORE RETURNING THE APPLIANCE TO THE CUSTOMER.

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**ONKYO**  
**AUDIO COMPONENTS**

# SPECIFICATIONS

## U.S.A. & Canadian models

|                                |  |
|--------------------------------|--|
| Power Output:                  | 100 watts per channel, min RMS, at 8 ohms, both channels driven from 20 Hz to 20 kHz, with no more than 0.08% THD.   |
| Total Harmonic Distortion:     | 0.08% at rated power   |
| IM Distortion:                 | 0.08% at rated power   |
| Damping Factor:                | 40 at 8 ohms   |
| Frequency and Response:        | 15-30,000 Hz $\pm 1$ dB  |
| Sensitivity and Impedance:     | Phono: 2.5 mV/50 kohms<br>Tuner/CD/VCR-1, VDP: 150 mV/50 kohms<br>Source Direct: 150 mV/50 kohms<br>Tape/VCR-2 Play: 150 mV/50 kohms<br>Tape/VCR-2 Rec: 150 mV/3 kohms (phono) |
| Phono Overload:                | 150 mV RMS at 1 kHz, 0.08% THD (REC)   |
| Bass Control:                  | $\pm 10$ dB at 100 Hz  |
| Treble Control:                | $\pm 10$ dB at 10,000 Hz   |
| Selective Tone Control:        | $\pm 15$ dB at 50 Hz/ $\pm 6$ dB at 10 kHz   |
| Signal to Noise Ratio (IHF-A): | Phono: 80 dB (5 mV input)<br>Source Direct (CD): 102 dB  |

## General

|                                       |   |
|---------------------------------------|---|
| Power Supply:                         | USA & Canadian models: AC 120V, 60 Hz   |
| Dimensions (W $\times$ H $\times$ D): | 435 $\times$ 143 $\times$ 287 mm<br>17-1/8" $\times$ 5-5/8" $\times$ 11-5/16" |
| Weight:                               | 9.1 kg, 20.1 lbs.   |

## Remote Control Transmitter RC-142S

|                                       |  |
|---------------------------------------|--|
| Transmitter:                          | Infrared.  |
| Signal range:                         | Approx. 5 meters, 16ft.  |
| Power supply:                         | Two "AA" batteries (1.5 V $\times$ 2)                                      |
| Dimensions (W $\times$ H $\times$ D): | 64 $\times$ 18 $\times$ 176 mm<br>2-1/2" $\times$ 11/16" $\times$ 6-15/16" |
| Weight:                               | 130 grams, 4.6 oz. (including batteries)                                   |

## European models

|                                |  |
|--------------------------------|--|
| Power Output:                  | 80 watts per channel, min RMS, at 8 ohms, both channels driven from 20 Hz to 20 kHz, with no more than 0.08% THD.<br>2 $\times$ 120 watts at 4 ohms, 1 kHz (DIN)<br>2 $\times$ 90 watts at 8 ohms, 1 kHz (DIN) |
| Total Harmonic Distortion:     | 0.08% at rated power   |
| IM Distortion:                 | 0.08% at rated power   |
| Damping Factor:                | 40 at 8 ohms   |
| Frequency and Response:        | 15-30,000 Hz $\pm 1$ dB  |
| Sensitivity and Impedance:     | Phono: 2.5 mV/50 kohms<br>Tuner/CD/VCR-1/VDP: 150 mV/50 kohms<br>Source Direct: 150 mV/50 kohms<br>Tape/VCR-2 Play: 150 mV/50 kohms<br>Tape/VCR-2 Rec: 150 mV/3 kohms (phono)                                  |
| Phono Overload:                | 150 mV RMS at 1 kHz, 0.08% THD (REC)   |
| Bass Control:                  | $\pm 10$ dB at 100 Hz  |
| Treble Control:                | $\pm 10$ dB at 10,000 Hz   |
| Selective Tone Control:        | $\pm 15$ dB at 50 Hz/ $\pm 6$ dB at 10 kHz   |
| Signal to Noise Ratio (IHF-A): | Phono: 80 dB (5 mV input)<br>Source Direct (CD): 102 dB  |

## General

|                                       |  |
|---------------------------------------|--|
| Power Supply:                         | (except U.K.): AC 220V, 50 Hz<br>U.K. & Australian models: AC 240V, 50 Hz<br>Worldwide models: AC 120V and 220V switchable, 50/60 Hz |
| Dimensions (W $\times$ H $\times$ D): | 435 $\times$ 143 $\times$ 287 mm<br>17-1/8" $\times$ 5-5/8" $\times$ 11-5/16"  |
| Weight:                               | 9.1 kg, 20.1 lbs.  |

## Remote Control Transmitter RC-143S

|                                       |  |
|---------------------------------------|--|
| Transmitter:                          | Infrared   |
| Signal range:                         | Approx. 5 meters, 16ft.  |
| Power supply:                         | Two "AA" batteries (1.5 V $\times$ 2)                                      |
| Dimensions (W $\times$ H $\times$ D): | 64 $\times$ 18 $\times$ 176 mm<br>2-1/2" $\times$ 11/16" $\times$ 6-15/16" |
| Weight:                               | 130 grams, 4.6 oz. (including batteries)                                   |

# ADJUSTMENT PROCEDURES

## Adjustments and Checking the Protection Circuitry

### 1. Preparations

- 1) Place the unit on the workbench. (There should be about 15 mm of space between the base plate of the unit and the work surface.)
- 2) Set up the unit as follows.
  - (1) No load
  - (2) No signal
  - (3) Volume turned all the way down
  - (4) Speaker switch OFF
  - (5) Power switch OFF

Note) Check the following points before making adjustments

- (1) The power switch should be OFF.
- (2) The interior of the unit should not be warm.

### 2. Idling current adjustment

- 1) Turn the power switch ON and allow the unit to warm up for about 10 minutes.
  - (1) Adjust R529 (R530) so that the voltage at test point VCT-ID on the NAAF-3547 circuit board is  $9.5\text{mV} \pm 3.5\text{mV}$

### 3. Check of operation of protection circuitry

- 1) Check of operation of protection relay.
  - (1) Confirm that the relay turns ON approximately 5 seconds after the power switch is turned ON.
  - (2) The relay should turn OFF approximately 0.5 seconds after the power switch is turned OFF.
- 2) Check of DC detection
  - (1) Turn the power on with no load.
  - (2) After the speaker relay turns ON, apply DC +1.5V to the CD input terminals. Confirm that the relay turns OFF.
  - (3) Confirm that operation is the same as (2) above when an input of DC -1.5V is applied.

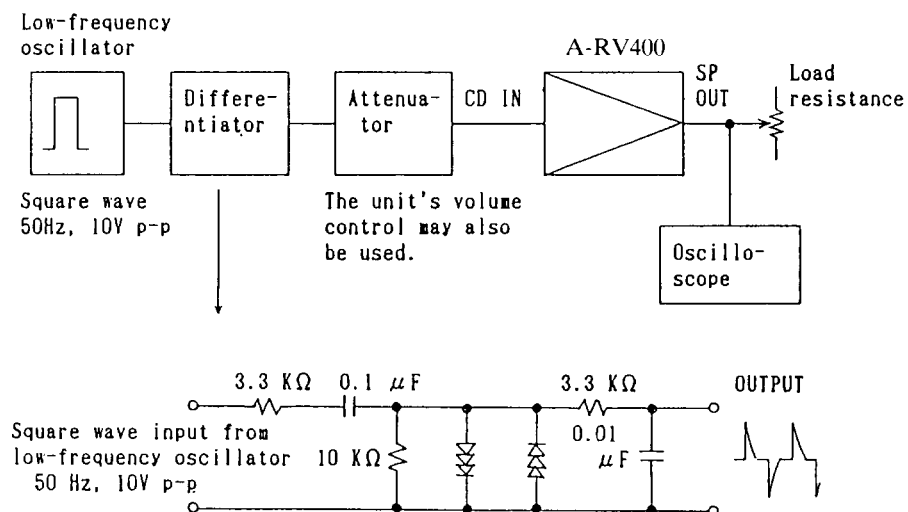
Note) Under no circumstances connect a load or short the speaker terminals when performing the above test.

#### 3) Signal input from the circuit illustrated below with no load.

- (1) Confirm that the speaker relay does not turn OFF even when a 2 ohm load is connected when a peak value of 35V p-p is output.
- (2) Next, confirm that when a 1 ohm load is connected the speaker relay switches OFF and ON a couple of times and then stays OFF.

Note) The period before that relay stays OFF should not last for more than 10 second.

Relay OFF status can be canceled by switching the power OFF.



NOTE) Semi-fixed resistors enclosed in parentheses ( ) are for the right channel.

## PRECAUTIONS

### 1. Replacing the fuses

For continued protection against risk fire, replace only with same type and same rating fuse.

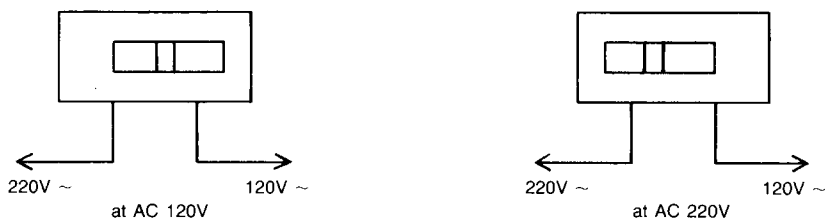
| CIRCUIT NO. | PART NO.              | DESCRIPTION  |
|-------------|-----------------------|--|
| F901        | 252052                | 7A ST-6, Primary fuse (120V, 120V/220V model)                              |
| F902        | 252076 or<br>252076CC | 3.15A-SE-EAK or<br>3.15A-SE-EAK Primary fuse (220V, 240V, 120V/220V model) |

### 2. Insulation resistance measurement (Only U.S.A. model)

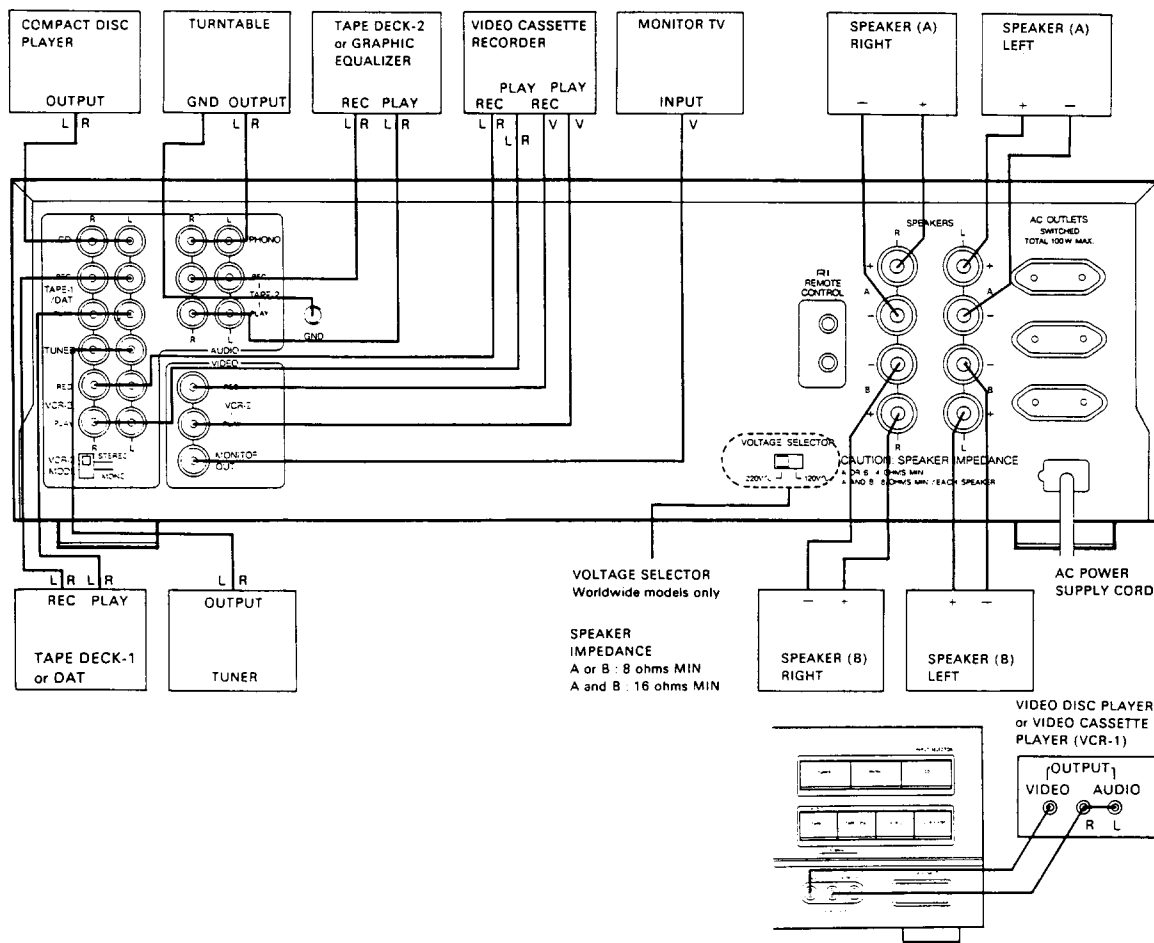
Connect the insulating-resistance tester between the plug of power supply cable and the terminal GND on the back panel.  
Specifications; More than 10 MΩ at 500V.

### 3. Voltage selector (rear panel)

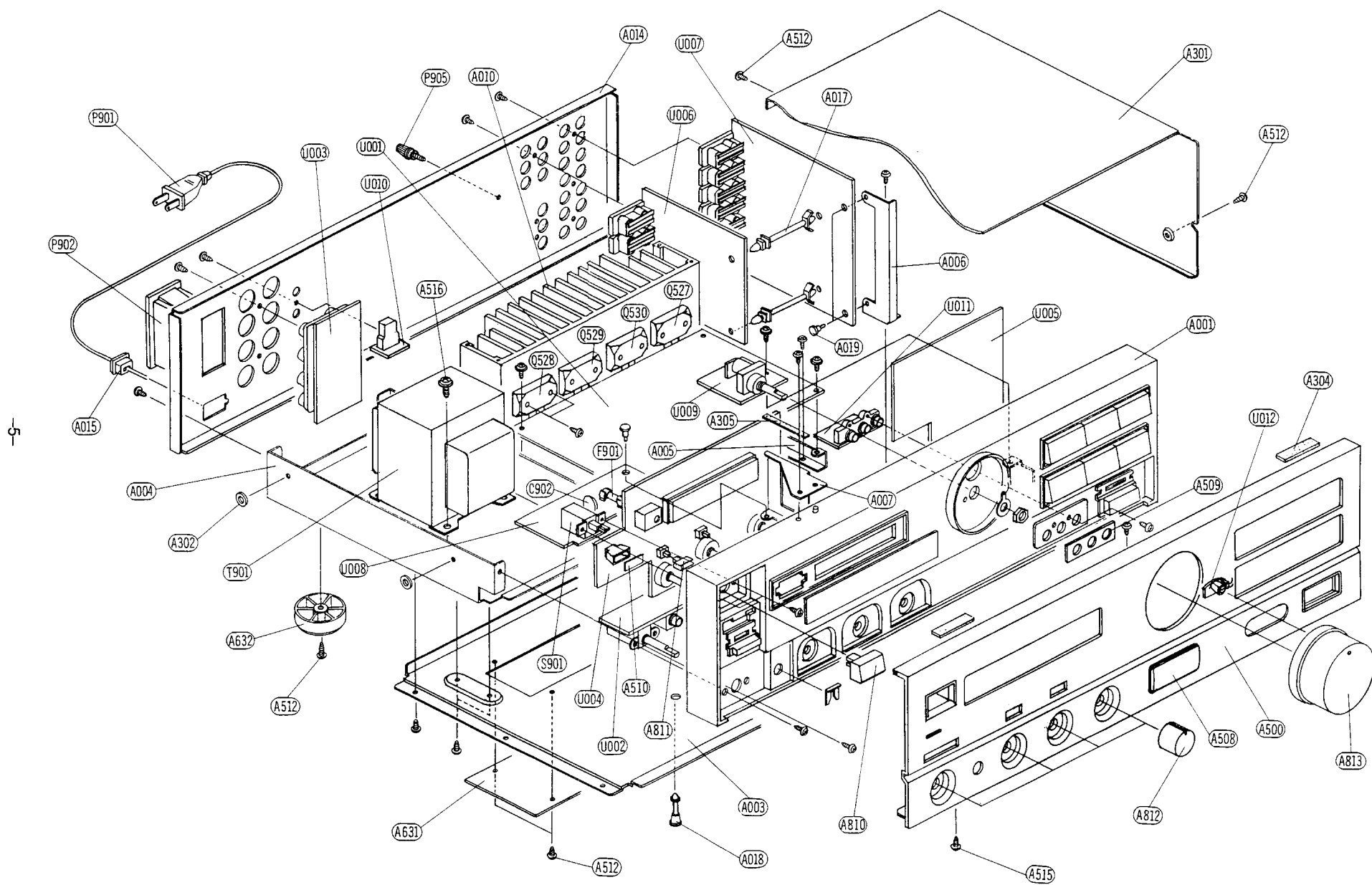
Worldwide models are equipped with a voltage selector to conform with local power supplies. Be sure to set this switch to match the voltage of the power supply in your area before turning the power switch on. Voltage is changed by sliding the groove in the switch with a screwdriver to the right or left. Confirm that the switch has been moved all the way to the right or left before turning the power switch on. Models without a voltage selector can only be used in areas where the power supply is the same as that of the unit.



## SYSTEM CONNECTIONS




# CHASSIS-EXPLODED VIEW



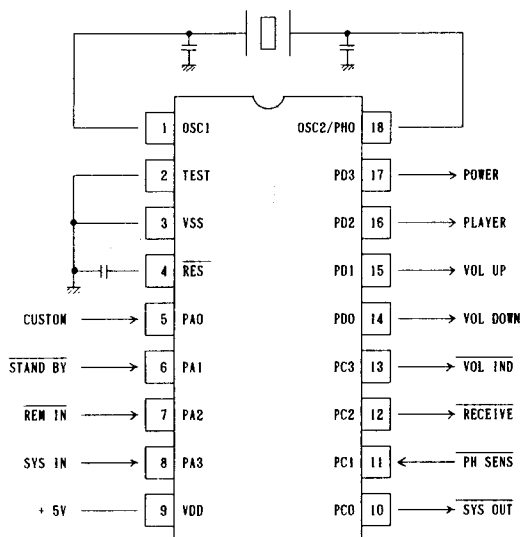
## CHASSIS EXPLODED VIEW PARTS LIST

| REF. NO.    | PART NO.                             | DESCRIPTION  | REF. NO.    | PART NO.           | DESCRIPTION   |
|-------------|--------------------------------------|--|-------------|--------------------|---|
| A001        | 27110482A                            | FRONT ANGLE ASS'Y  | ▲ P902      | 25050336           | NSCT-6P163, AC SOCKET [D]   |
| A003        | 27100185A                            | CHASSIS  | ▲ P902~P904 | 25050337           | NSCT-2P164, AC SOCKET [G][W][A][B]                                |
| A004        | 27130573B                            | BRACKET (PT)   | P905        | 25060044           | GROUND TERMINAL   |
| A005        | 27141332                             | BRACKET (PC)   | ▲ S901      | 25035550           | NPS-111-L512P, POWER SWITCH                                       |
| A006        | 27141329                             | BRACKET (SW)   | ▲ S902      | 25065123           | NSS-1258P, SLIDE SWITCH [W]                                       |
| A007        | 27141324                             | BRACKET (POW)  | ▲ C902      | 3500065A           | 0.01μF, AC400V/125V, CAPACITOR                                    |
| A010        | 27160239                             | HEATSINK   | ▲ F901      | 252052             | 7A(ST-6), FUSE [D][W]   |
| A014        | 27121223A                            | BACK PLATE [D]   | ▲ F902      | 252076 or 252076CC | 3.15A-SE-EAK or [G][W][A][B] 3.15A-SE-EAK FUSE [G][W][A][B]       |
| A014        | 27121224A                            | BACK PLATE [G]   | ▲ F903      | 252075 or 252075CC | 2.5A-SE-EAK or [G] 2.5A-SE-EAK, FUSE [G]                          |
| A014        | 27121226A                            | BACK PLATE [W]   | U001        | 1A143547-2         | NAAF-3547-2, MAIN PC BOARD ASS'Y [D]                              |
| A014        | 27121265                             | BACK PLATE [A][B]  | U001        | 1A143547-2A        | NAAF-3547-2A, MAIN PC BOARD ASS'Y [G][W][A][B]                    |
| A015        | 27300750                             | BUSHING (CABLE)  | U002        | 1A143548-2         | NASW-3548-2, SPEAKER SWITCH PC BOARD ASS'Y                        |
| A017        | 27190369                             | KGLS-22S, PC HOLDER  | U003        | 1A143549-2         | NAETC-3549-2, SPEAKER TERMINAL PC BOARD ASS'Y [D]                 |
| A018        | 27190511                             | KGLS-16R, PC HOLDER  | U003        | 1A143549-2A        | NAETC-3549-2A, SPEAKER TERMINAL PC BOARD ASS'Y [G][W][A][B]       |
| A019        | 880009                               | NRP-345, REVET   | U004        | 1A143564-1         | NADG-3564-1, SYSTEM CONTROL CIRCUIT PC BOARD ASS'Y [D]            |
| A301        | 28184436                             | TOP COVER  | U004        | 1A143564-1A        | NADG-3564-1A, SYSTEM CONTROL CIRCUIT PC BOARD ASS'Y [G][W]        |
| A302        | 27270147                             | SPACER   | U004        | 1A143564-1B        | NADG-3564-1B, SYSTEM CONTROL CIRCUIT PC BOARD ASS'Y [A][B]        |
| A304        | 28140555                             | CUSHION  | U005        | 1A143565-1         | NASW-3565-1, KEY SWITCH PC BOARD ASS'Y                            |
| A305        | 28140729                             | CUSHION  | U006        | 1A143566-1         | NAETC-3566-1, EQUALIZER CIRCUIT PC BOARD ASS'Y [D]                |
| A500        | 1A143121                             | FRONT PANEL  | U006        | 1A143566-1A        | NAETC-3566-1A, EQUALIZER CIRCUIT PC BOARD ASS'Y [G][W][A][B]      |
| (A503)      | 27267582A                            | GUIDE (POW)  | U007        | 1A143567-1         | NAAF-3567-1, SELECTOR SWITCH CIRCUIT PC BOARD ASS'Y [D]           |
| (A504)      | 28198723A                            | FAKET  | U007        | 1A143567-1A        | NAAF-3567-1A, SELECTOR SWITCH CIRCUIT PC BOARD ASS'Y [G][W][A][B] |
| (A505)      | 28191503A                            | CLEAR PLATE  | U008        | 1A143568-1         | NAPS-3568-1, POWER SWITCH CIRCUIT PC BOARD ASS'Y [D]              |
| (A506)      | 27267584                             | GUIDE (SD)   | U008        | 1A143568-1A        | NAPS-3568-1A, POWER SWITCH CIRCUIT PC BOARD ASS'Y [G]             |
| (A507)      | 27267591                             | GUIDE (TONE)   | U008        | 1A143568-1B        | NAPS-3568-1B, POWER SWITCH CIRCUIT PC BOARD ASS'Y [W]             |
| A508        | 28135176                             | NAME PLATE   | U008        | 1A143568-1C        | NAPS-3568-1C, POWER SWITCH CIRCUIT PC BOARD ASS'Y [A][B]          |
| A509        | 27262415                             | PLATE (T)  | U009        | 1A143569-1         | NAETC-3569-1, VOLUME CONTROL CIRCUIT PC BOARD ASS'Y               |
| A510        | 28149181                             | FILM   | U010        | 1A143570-1         | NAETC-3570-1, BUS TERMINAL PC BOARD ASS'Y [D]                     |
| A512        | 834430088                            | 3TTS+8BBC, TAPPING SCREW   |             |                    |   |
| A515        | 833430080                            | 3TTP+8PBC, TAPPING SCREW   |             |                    |   |
| A516        | 830440089                            | 4TTC+8CBC, TAPPING SCREW   |             |                    |   |
| A631        | 27170261                             | BOTTOM BOARD   |             |                    |   |
| A632        | 27175219                             | BOTTOM BOARD   |             |                    |   |
| <u>A810</u> | <u>28323241-1</u>                    | KNOB (POW)   |             |                    |   |
| A811        | 28323648                             | KNOB (STC)   |             |                    |   |
| A812        | 28323677A                            | KNOB (TONE)  |             |                    |   |
| A813        | 28323675A                            | KNOB (VOL)   |             |                    |   |
| A890        | 29360626-1                           | CAUTION LABEL (FUSE) [D]   |             |                    |   |
| Q527, Q528  | 2201803 or 2201804 or 2201806        | 2SC3857-O or 2SC3857-Y or 2SC3857-P, TRANSISTOR  |             |                    |   |
| Q529, Q530  | 2201793 or 2201794 or 2201796        | 2SA1493-O or 2SA1493-Y or 2SA1493-P, TRANSISTOR  |             |                    |   |
| ▲ T901      | 2300418                              | NPT-1029D, POWER TRANSFORMER [D]   |             |                    |   |
| ▲ T901      | 2300419A                             | NPT-1030G, POWER TRANSFORMER [G]   |             |                    |   |
| ▲ T901      | 2300420                              | NPT-1030DG, POWER TRANSFORMER [W]  |             |                    |   |
| ▲ T901      | 2300445                              | NPT-1030Q, POWER TRANSFORMER [A][B]  |             |                    |   |
| ▲ P901      | 253123 or 253136 or 253140 or 253146 | AS-UC-6 #18 or [D] AS-UC-6 #18 or [D] AS-UC-6 #18 or [D] AS-UC-6 #18, POWER SUPPLY CABLE [D] |             |                    |   |
| ▲ P901      | 253149                               | AS-CEE, POWER SUPPLY CABLE [G]   |             |                    |   |
| ▲ P901      | 253092-1A                            | AS-CEE-2, POWER SUPPLY CABLE [W]   |             |                    |   |
| ▲ P901      | 253118                               | AS-SAA, POWER SUPPLY CABLE [A]   |             |                    |   |
| ▲ P901      | 253104 or 253105                     | C2.5BS2 or [B] C2.5BS2, POWER SUPPLY CABLE [B]   |             |                    |   |

| REF. NO. | PART NO.    | DESCRIPTION   | NOTE:  |
|----------|-------------|---|--|
| U010     | 1A143570-1A | NAETC-3570-1A, BUS<br>TERMINAL PC BOARD ASS'Y<br>[G][W][A][B]   | [D]: ONLY 120V MODEL<br>[G]: ONLY 220V MODEL<br>[W]: ONLY 120V/220V MODEL<br>[A]: ONLY AUSTRALIAN MODEL<br>[B]: ONLY BRITISH MODEL |
| U011     | 1A143571-1  | NAETC-3571-1, VIDEO<br>TERMINAL PC BOARD ASS'Y<br>[D]           |  |
| U011     | 1A143571-1A | NAETC-3571-1A, VIDEO<br>TERMINAL PC BOARD ASS'Y<br>[G][W][A][B] |  |
| U012     | 1A143572-1  | NADIS-3572-1, VOLUME<br>INDICATOR PC BOARD<br>ASS'Y             |  |

NOTE: THE COMPONENTS IDENTIFIED BY MARK  ARE CRITICAL FOR RISK OF FIRE AND ELECTRIC SHOCK. REPLACE ONLY WITH PARTS NUMBER SPECIFIED.

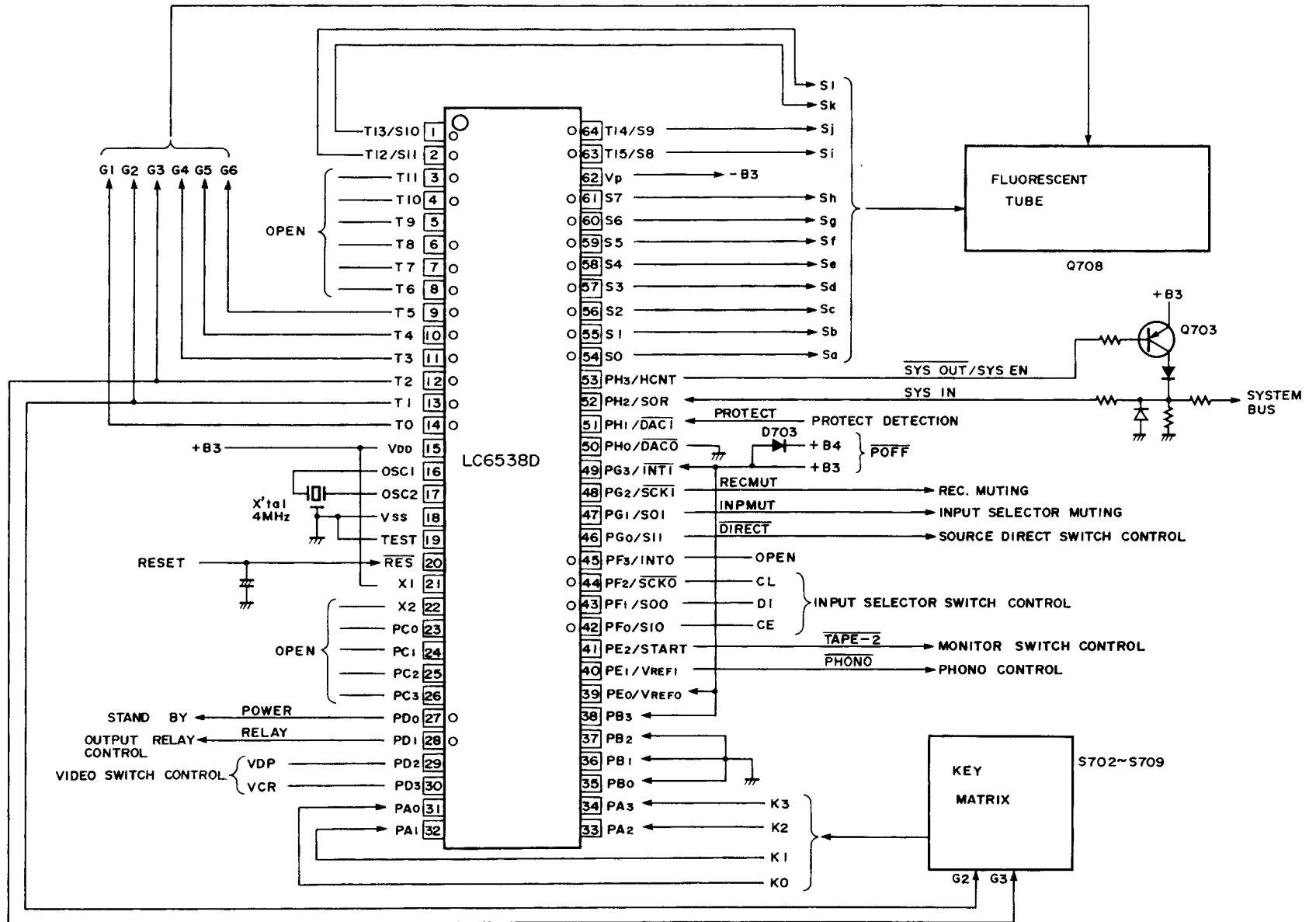
## IC BLOCK DIAGRAM



### LC6527C (Remoto controlle decoder)

| Pin No.      | Pin name        | Symbol          | Function   |              |             |           |   |      |                 |   |      |       |
|--------------|-----------------|-----------------|--|--------------|-------------|-----------|---|------|-----------------|---|------|-------|
| 1            | OSC1            | OSC1            | Ceramic oscillator connector terminal. 4 MHz. 1/3 division.  |              |             |           |   |      |                 |   |      |       |
| 2            | TEST            | TEST            | Test terminal. Connected to V <sub>SS</sub> .  |              |             |           |   |      |                 |   |      |       |
| 3            | V <sub>SS</sub> | V <sub>SS</sub> | Ground terminal  |              |             |           |   |      |                 |   |      |       |
| 4            | RES             | RES             | Reset terminal.  |              |             |           |   |      |                 |   |      |       |
| 5            | PA0             | CUSTOM          | Decoded input terminal with switchable custom codes and operations. <table><tr><td>Custom input</td><td>Custom code</td><td>Operation</td></tr><tr><td>L</td><td>D26D</td><td>System (export)</td></tr><tr><td>H</td><td>D225</td><td>Tuner</td></tr></table> <p>This terminal is read when power is turned on and the above initial settings are carried out.</p> | Custom input | Custom code | Operation | L | D26D | System (export) | H | D225 | Tuner |
| Custom input | Custom code     | Operation       |  |              |             |           |   |      |                 |   |      |       |
| L            | D26D            | System (export) |  |              |             |           |   |      |                 |   |      |       |
| H            | D225            | Tuner           |  |              |             |           |   |      |                 |   |      |       |
| 6            | PA1             | STAND BY        | Standby condition sensor terminal. Only the POWER code is decoded when STAND BY input is "L".  |              |             |           |   |      |                 |   |      |       |
| 7            | PA2             | REM IN          | Remote control signal input terminal. Active: "L". The photo-sensor output is connected to this terminal.  |              |             |           |   |      |                 |   |      |       |
| 8            | PA3             | SYS IN          | System code input terminal. Active: "H". Output system codes are monitored at this terminal.   |              |             |           |   |      |                 |   |      |       |
| 9            | V <sub>DD</sub> | V <sub>DD</sub> | Power supply (+5V) terminal.   |              |             |           |   |      |                 |   |      |       |
| 10           | PC0             | SYS OUT         | System code output terminal. Active: "L". This terminal output the appropriate system code in response to input from the remote control.   |              |             |           |   |      |                 |   |      |       |
| 11           | PC1             | PH SENS         | PHONO sensor input terminal. Active: "L". This terminal is valid during system. The remote control K64 code is decoded only when this terminal is "L".   |              |             |           |   |      |                 |   |      |       |
| 12           | PC2             | RECEIVE         | RECEIVE display output terminal. Active: "L". "L" when remote control codes for decoding are being input.  |              |             |           |   |      |                 |   |      |       |
| 13           | PC3             | VOL IND         | VOLUME indicator output terminal. Active: "L". Normally "L". Outputs waveform which is "H" for 250 ms then "L" for 250 ms during VOLUME UP or VOLUME DOWN output.  |              |             |           |   |      |                 |   |      |       |
| 14           | PD0             | VOL DOWN        | VOLUME DOWN control output terminal. Active: "H". Output is "H" when remote control K4 code is input.  |              |             |           |   |      |                 |   |      |       |
| 15           | PD1             | VOL UP          | VOLUME UP control output terminal. Active: "H". Output is "H" when remote control K3 code is input.  |              |             |           |   |      |                 |   |      |       |
| 16           | PD2             | PLAYER          | PLAYER control output terminal. Active: "H". This terminal is valid during system. Output is "H" for 200 ms if remote control K64 code is input when PH SENS input is "L".   |              |             |           |   |      |                 |   |      |       |
| 17           | PD3             | POWER           | POWER control output terminal. Active: "H". Reverses output whenever remote control K5 code is input.  |              |             |           |   |      |                 |   |      |       |
| 18           | OSC2/PHO        | OSC2            | Ceramic oscillator connector terminal. 4 MHz 1/3 division.   |              |             |           |   |      |                 |   |      |       |

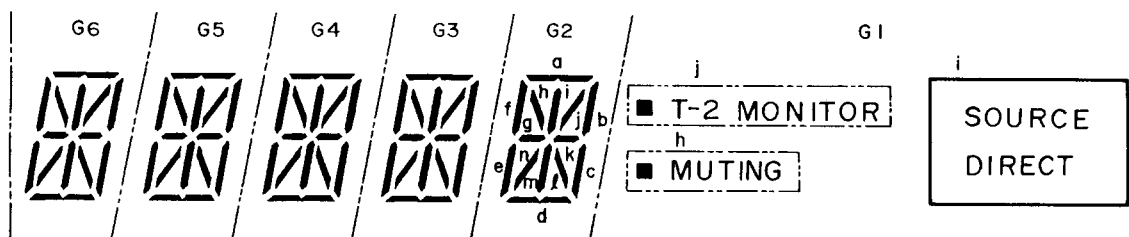
# LC6538D (Micro computer)





## LC6538D

| Pin No. | Pin name        | Symbol               | Function  |
|---------|-----------------|----------------------|---|
| 1       | T13/S10         | SK                   | Segment output terminals. Active: "H".  |
| 2       | T12/S11         | SI                   |   |
| 3       | T11             | DISPLAY              | Display control output terminal. "H" when display is illuminated.   |
| 4       | T10             | DIRECT               | Direct display output terminal. "H" when direct is on.  |
| 5       | T9              | FM                   | FM control output terminal (receiver only). "H" when set to FM. Controls the automatic reception mode display.  |
| 6       | T8              | D9                   | Digit output terminals. Active: "H". Key scan output terminals.   |
| 7       | T7              | D8                   |   |
| 8       | T6              | D7                   |   |
| 9       | T5              | D6                   |   |
| 10      | T4              | D5                   |   |
| 11      | T3              | D4                   |   |
| 12      | T2              | D3                   |   |
| 13      | T1              | D2                   |   |
| 14      | T0              | D1                   |   |
| 15      | V <sub>DD</sub> | V <sub>DD</sub>      | Power supply terminal (+5V)   |
| 16      | OSC1            | OSC1                 | Main system clock terminals. Connected to 4 MHz ceramic oscillator. The system clock mode is equivalent to the main clock 1/2 mode (cycle time: 21s).   |
| 17      | OSC2            | OSC2                 |   |
| 18      | V <sub>SS</sub> | V <sub>SS</sub>      | Ground terminal.  |
| 19      | TEST            | TEST                 | LSI test terminal. Connected to V <sub>SS</sub> .   |
| 20      | RES             | RES                  | Reset input terminal. Active: "L".  |
| 21      | X1              | X1                   | Sub-clock terminals. Not used. X1 terminal is connected V <sub>DD</sub> .   |
| 22      | X2              | X2                   |   |
| 23      | PC0             | LOCAL                | Automatic reception mode display output terminals. Active: "L". "L" when in automatic reception mode (receiver only). (The settings for DX and LOCAL as well as AUTO and MONO are always the reverse of one another.) All are always "L" for amplifier. |
| 24      | PC1             | DX                   |   |
| 25      | PC2             | AUTO                 |   |
| 26      | PC3             | MONO                 |   |
| 27      | PD0             | POWER                | POWER signal output terminal. "H" when ON.  |
| 28      | PD1             | RELAY                | Speaker relay control output terminal. Active "H".  |
| 29      | PD2             | VDP                  | Video signal control output terminals. Active: "H".   |
| 30      | PD3             | VDP                  |   |
| 31      | PA0             | K0                   | Key input terminals. Active: "H".   |
| 32      | PA1             | K1                   |   |
| 33      | PA2             | K2                   |   |
| 34      | PA3             | K3                   |   |
| 35      | PB0             | SD                   | Station detect input terminal (receiver only). Active: "L". Turns off auto tuning.  |
| 36      | PB1             | STEREO               | Stereo broadcast detect terminal. Active: "L". Controls "STEREO" indication (receiver only).  |
| 37      | PB2             | RF IN                | RF input terminal (receiver only). DX when "H".   |
| 38      | PB3             | REC/AMP              | Initial setting input terminals.  |
| 39      | PE0/VREF0       | BACK                 |   |
| 40      | PE1/VREF1       | PHONO                | PHONO control output terminal. "L" when selector is set to PHONO.   |
| 41      | PE2/START       | AUTO/MONO/<br>TAPE-2 | (1) Receiver: AUTO/MONO switching output terminal. "L" when AUTO (receiver only).<br>(2) Amplifier: TAPE-2 control output terminal. "L" when TAPE-2 is on.  |
| 42      | PF0/SI0         | SEL                  | Output terminal connected to analog switch LC7821 CE terminal.  |
| 43      | PF1/SO0         | DATA                 | Output terminal connected to DATA terminal of PLL LM7001 and DI terminal of switch LC7821.  |
| 44      | PF2/SCKO        | CL                   | Output terminal connected to CL terminals of PLL LM7001 and switch LC7821.  |
| 45      | PF3/INTO        | PLL                  | Receiver: output terminal connected to CE terminal of PLL LM7001.   |
| 46      | PC0/S11         | DIRECT               | DIRECT control output terminal. Active: "L".  |
| 47      | PG1/SO1         | INP MUT              | INPUT selector muting output terminal. Active: "H".   |
| 48      | PG2/SCK1        | REC MUT              | Record output muting output terminal. Active: "H".  |
| 49      | PG3/INT1        | POFF                 | Power off sensor input terminal. Active: "L". "L" shorter than 100μs is ignored.  |
| 50      | PH0/DAC0        | TUMUT                | Tuner muting output terminal (receiver only). Active: "H".  |
| 51      | PH1/DAC1        | PROTECT              | Protect operation sensor input terminal. "H" during protect operation. "H" shorter than 100μs is ignored. Controls RELAY output.  |
| 52      | PH2/SQR         | SYS IN               | System code input terminal. Active: "H".  |
| 53      | PH3/HICNT       | SYS OUT/<br>SYS EN   | System code output terminal. Active: "L". Becomes initial setting input terminal SYS EN when power is turned on.  |
| 54      | S0              | Sa                   | Segment output terminals. Active: "H".  |
| 55      | S1              | Sb                   |   |
| 56      | S2              | Sc                   |   |
| 57      | S3              | Sd                   |   |
| 58      | S4              | Se                   |   |
| 59      | S5              | Sf                   |   |
| 60      | S6              | Sg                   |   |
| 61      | S7              | Sh                   |   |
| 62      | VP              | VP                   | Power supply terminal for pull down resistance.   |
| 63      | T15/S8          | Si                   | Segment output terminals. Active: "H".  |
| 64      | T14/S9          | Sj                   |   |



|            |    |    |    |    |    |    |    |    |    |
|------------|----|----|----|----|----|----|----|----|----|
| Pin No     | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 |
| Connection | GI | j  | i  | NC | NC | GI | NP | F  | F  |

F : Filament                      G : Gride                      P : Anode  
NP: No pin                      NC : Non connection

# PRINTED CIRCUIT BOARD PARTS LIST

## MAIN CIRCUIT PC BOARD (NAAF-3547-2, NAAF-3547-2A) PARTS LIST

| CIRCUIT NO.        | PART NO.     | DESCRIPTION      | CIRCUIT NO.       | PART NO.     | DESCRIPTION                            |
|--------------------|--------------|------------------|-------------------|--------------|--|
| <b>Transistors</b> |              |                  | <b>Capacitors</b> |              |  |
| Q501, Q502         | 2212285 or   | 2SC2878-A or     | C501, C502        | 354741009    | 10 $\mu$ F, 16V, Elect.                |
|                    | 2212286      | 2SC2878-B        | C505, C506, C653  | 354722219    | 220 $\mu$ F, 6.3V, Elect.              |
| Q503~Q506          | 2211455 or   | 2SA1015-GR or    | C511, C512        | 354780229    | 2.2 $\mu$ F, 50V, Elect.               |
|                    | 2210803      | 2SA733-P         | C529, C530        | 371124734    | 0.047 $\mu$ F, 50V, Mylar              |
| Q507, Q508         | 2211371 or   | 2SC2259-O-001 or | C533, C534        |              |  |
|                    | 2211372      | 2SC2259-O-002    | C535, C536        | 354790479    | 4.7 $\mu$ F, 100V, Elect. [D]          |
| Q509, Q510         | 2211732 or   | 2SC1845-F or     | C535, C536        | 354771019    | 100 $\mu$ F, 63V, Elect.               |
|                    | 2211733      | 2SC1845-E        |                   |              | [G][W][A][B]                           |
| Q511, Q512         | 2211255 or   | 2SC1815-GR or    | C652              | 354790479    | 4.7 $\mu$ F, 100V, Elect.              |
|                    | 2210746      | 2SC945A-P        | C654              | 354780109    | 1 $\mu$ F, 50V, Elect.                 |
| Q513, Q514         | 2211353 or   | 2SA949-O or      | C911, C912        | 3504191      | 10000 $\mu$ F, 71V, Elect.             |
|                    | 2211354      | 2SA949-Y         | C913              | 354772219    | 220 $\mu$ F, 63V, Elect. [D]           |
| Q515, Q516         | 2211633 or   | 2SC2229-O or     | C913              | 354782219    | 220 $\mu$ F, 50V, Elect.               |
|                    | 2211634      | 2SC2229-Y        |                   |              | [G][W][A][B]                           |
| Q517, Q518         | 2211255 or   | 2SC1815-GR or    | C914              | 354782219    | 220 $\mu$ F, 50V, Elect.               |
|                    | 2210746      | 2SC945A-P        | C915, C916        | 354761019    | 100 $\mu$ F, 100V, Elect.              |
| Q519, Q520         | 2211633 or   | 2SC2229-O or     | C919, C921        | 354742219    | 220 $\mu$ F, 16V, Elect.               |
|                    | 2211634      | 2SC2229-Y        | C920              | 354754719    | 470 $\mu$ F, 25V, Elect.               |
| Q521, Q522         | 2211353 or   | 2SA949-O or      | C922              | 354772219    | 220 $\mu$ F, 63V, Elect.               |
|                    | 2211354      | 2SA949-Y         | C923              | 354741019    | 100 $\mu$ F, 16V, Elect.               |
| Q523, Q524         | 2201643 or   | 2SC3298-O or     | C925              | 354722219    | 220 $\mu$ F, 6.3V, Elect.              |
|                    | 2201644      | 2SC3298-Y        | C931              | 354742209    | 22 $\mu$ F, 16V, Elect.                |
| Q525, Q526         | 2201633 or   | 2SA1306-O or     |                   |              |  |
|                    | 2201634      | 2SA1306-Y        |                   |              |  |
| Q531, Q532         | 2211633 or   | 2SC2229-O or     | R527, R528        | 442522704    | 27 $\Omega$ , 1/2W, Metal oxide film   |
|                    | 2211634      | 2SC2229-Y        | R529, R530        | 5210062      | N06HR4.7KBD, Semi-fixed                |
| Q651               | 2211455 or   | 2SA1015-GR or    | R535, R536        | 442529104    | 91 $\Omega$ , 1/2W, Metal oxide film   |
|                    | 2212495      | JA101-Q          | R537, R538        | 442521024    | 1 $\Omega$ , 1/2W, Metal oxide film    |
| Q652               | 2211792 or   | 2SA992-F or      | R539, R540        | 442521014    | 100 $\Omega$ , 1/2W, Metal oxide film  |
|                    | 2211793      | 2SA992-E         | R541~R544         | 442520224    | 2.2 $\Omega$ , 1/2W, Metal oxide film  |
| Q653, Q654         | 2211732 or   | 2SC1845-F or     | R545, R546        | 441720104    | 1 $\Omega$ , 2W, Metal oxide film      |
|                    | 2211733      | 2SC1845-E        | R547~R550         | 4000080 or   | 0.47 $\Omega$ , 5W or                  |
| Q655               | 2211255 or   | 2SC1815-GR or    |                   | 4500022      | 0.47 $\Omega$ , 5W, Metal plate        |
|                    | 2212485      | JC501-Q          | R559, R560        | 442520824    | 8.2 $\Omega$ , 1/2W, Metal oxide film  |
| Q911, Q913         | 2201754 or   | 2SD1913-R or     | R564, R565        | 442522204    | 22 $\Omega$ , 1/2W, Metal oxide film   |
|                    | 2201755      | 2SD1913-S        | R658              | 441721224    | 1.2K $\Omega$ , 2W, Metal oxide film   |
| Q912               | 2201764 or   | 2SB1274-R or     |                   |              | [D]                                    |
|                    | 2201765      | 2SB1274-S        | R658              | 441729114    | 910 $\Omega$ , 2W, Metal oxide film    |
|                    |              |                  |                   |              | [G][W][A][B]                           |
| D501, D502         | 4000120      | KB265, Varistor  | R911, R912        | 441722414    | 240 $\Omega$ , 2W, Metal oxide film    |
| D503, D504, D652   | 223163       | ISS133           | R913              | 442525624    | 5.6K $\Omega$ , 1/2W, Metal oxide film |
| D911~D914          | 223897 or    | P300DL or        |                   |              | [D]                                    |
|                    | 22380003     | 1N5402F          | R913              | 442524324    | 4.3K $\Omega$ , 1/2W, Metal oxide film |
| D915               | 224151602 or | 05AZ16Y or       | R914              | 442525124    | 5.1K $\Omega$ , 1/2W, Metal oxide film |
|                    | 224651602 or | HZ16EB2 or       |                   |              | [D]                                    |
|                    | 224451603    | MTZ16B, Zener    | R914              | 442523624    | 3.6K $\Omega$ , 1/2W, Metal oxide film |
| D916               | 224152003 or | 05AZ20Z or       |                   |              | [G][W][A][B]                           |
|                    | 224652003 or | HZ20ZB3 or       | R915              | 441723914    | 390 $\Omega$ , 2W, Metal oxide film    |
|                    | 224452003    | MTZ20C, Zener    | R917              | 441621114    | 110 $\Omega$ , 1W, Metal oxide film    |
| D918               | 224151601 or | 05AZ16X or       | R918, R919        | 441721214    | 120 $\Omega$ , 2W, Metal oxide film    |
|                    | 224651601 or | HZ16EB1 or       | R920              | 442527524    | 7.5K $\Omega$ , 1/2W, Metal oxide film |
|                    | 224451601    | MTZ16A, Zener    |                   |              | [D]                                    |
| D919               | 224150623 or | 05AZ6.2Z or      | R920              | 442525624    | 5.6K $\Omega$ , 1/2W, Metal oxide film |
|                    | 224650623 or | HZ6.2EB3 or      |                   |              | [G][W][A][B]                           |
|                    | 224450623    | MTZ6.2C, Zener   | R931              | 441621824    | 1.8K $\Omega$ , 1W, Metal oxide film   |
| D931, D932         | 223880 or    | GP101N4003 or    |                   |              | [D]                                    |
|                    | 223896       | 1N4003F          | R931              | 441621524    | 1.5K $\Omega$ , 1W, Metal oxide film   |
| D933               | 224150512 or | 05AZ5.1Y or      |                   |              | [G][W][A][B]                           |
|                    | 224650512 or | HZ5.1EB2 or      | R932              | 442523914    | 390 $\Omega$ , 1/2W, Metal oxide film  |
|                    | 224450512    | MTZ5.1B, Zener   | R941              | 442522294    | 0.22 $\Omega$ , 1/2W, Metal oxide film |
|                    |              |                  |                   |              |  |
|                    |              |                  | RL501             |              |  |
|                    |              |                  |                   | <b>Relay</b> |  |
|                    |              |                  |                   | 25065134     | NRL-2P5A-DC24V-07                      |

| CIRCUIT NO.           | PART NO. | DESCRIPTION |
|-----------------------|----------|-------------|
| <b>Jumper sockets</b> |          |             |
| JL302a, JL901a        | 25050267 | NSCT-3P95   |
| JL903a                |          |             |
| JL902a                | 25050272 | NSCT-8P100  |
| <b>Radiator</b>       |          |             |
| 27160209              |          | RAD-67      |
| <b>Bracket</b>        |          |             |
| 27141059              |          | Ground      |

#### SPEAKER SWITCH PC BOARD (NASW-3548-2) PARTS LIST

| CIRCUIT NO.        | PART NO.  | DESCRIPTION                           |
|--------------------|-----------|---------------------------------------|
| <b>Coils</b>       |           |                                       |
| L571, L572         | 231134    | S-0.8E                                |
| <b>Resistors</b>   |           |                                       |
| R571, R572         | 442520564 | 5.6 $\Omega$ , 1/2W, Metal oxide film |
| R573, R574         | 441623914 | 390 $\Omega$ , 1W, Metal oxide film   |
| <b>Switch</b>      |           |                                       |
| S571               | 25030290  | NRSF-144-25SS                         |
| <b>Stereo jack</b> |           |                                       |
|                    | 25045183  | HLJ-4318-01-3020                      |

#### SPEAKER TERMINAL PC BOARD (NAETC-3549-2, NAETC-3549-2A) PARTS LIST

| CIRCUIT NO.     | PART NO. | DESCRIPTION   |
|-----------------|----------|---------------|
| <b>Terminal</b> |          |               |
| P571            | 25060134 | NTM-8PDMN-063 |

#### SYSTEM CONTROL CIRCUIT PC BOARD (NADG-3564-1, NADG-3564-1A, NADG-3564-1B) PARTS LIST

| CIRCUIT NO.                 | PART NO.                            | DESCRIPTION                            |
|-----------------------------|-------------------------------------|--|
| <b>Photo receiving unit</b> |                                     |  |
| U701                        | 24130001                            | GP1U501S                               |
| <b>ICs</b>                  |                                     |  |
| Q301                        | 22240014                            | $\mu$ PC4570HA                         |
| Q305, Q307                  | 22240050                            | $\mu$ PC4570C                          |
| Q701                        | 22240244                            | LC6538D-3984                           |
| Q706                        | 22240243                            | LC6527C-3987                           |
| <b>Transistors</b>          |                                     |  |
| Q702, Q704, Q705            | 2211255 or 2212485                  | 2SC1815-GR or JC501-Q                  |
| Q703                        | 2211455 or 2212495                  | 2SA1015-GR or JA101-Q                  |
| Q707                        | 2211504                             | 2SA950-Y                               |
| <b>FL tube</b>              |                                     |  |
| Q708                        | 212074                              | CPF3027GR                              |
| <b>Diodes</b>               |                                     |  |
| D701~D703, D706             | 223163                              | 1SS133                                 |
| D721, D722, D724            |                                     |  |
| D704                        | 224150563 or 224650563 or 224450563 | 05AZ5.6Z or HZ5.6EB3 or MTZ5.6C, Zener |
| D705, D707                  | 223145                              | 1S2076                                 |
| D723                        | 224150562 or 224650562 or 224450562 | 05AZ5.6Y or HZ5.6EB2 or MTZ5.6B, Zener |
| D725                        | 225141                              | SEL2213C, LED                          |
| <b>Osc. element</b>         |                                     |  |
| X701, X702                  | 3010150                             | CST4.00MGW                             |

| CIRCUIT NO.       | PART NO.  | DESCRIPTION                                    |
|-------------------|-----------|--|
| <b>Capacitors</b> |           |  |
| C301              | 354780229 | 2.2 $\mu$ F, 50V, Elect.                       |
| C303              | 371121124 | 1100 pF, 50V, Mylar                            |
| C305              | 371121234 | 0.012 $\mu$ F, 50V, Mylar                      |
| C307, C309, C310  | 354780229 | 2.2 $\mu$ F, 50V, Elect.                       |
| C313, C314, C317  |           |  |
| C318              |           |  |
| C315, C316        | 371128224 | 8200 pF, 50V, Mylar                            |
| C319, C320, C703  | 354780109 | 1 $\mu$ F, 50V, Elect.                         |
| C721              |           |  |
| C321, C322        | 371123934 | 0.039 $\mu$ F, 50V, Mylar                      |
| C325, C326        | 371122234 | 0.022 $\mu$ F, 50V, Mylar                      |
| C701              | 3000051   | 0.047 F, 5.5V, Super                           |
| C705              | 354780339 | 3.3 $\mu$ F, 50V, Elect.                       |
| C706, C707        | 354761009 | 10 $\mu$ F, 35V, Elect.                        |
| C709              | 354781009 | 10 $\mu$ F, 50V, Elect.                        |
| C723              | 354741009 | 10 $\mu$ F, 16V, Elect.                        |
| <b>Resistors</b>  |           |  |
| R325              | 5104228   | N11RHC250KWT22Z, Variable                      |
| R333, (R334)      | 5104229   | N14RHC100KWT22Z, Variable                      |
| R347, (R348)      |           |  |
| R791              | 442525104 | 51 $\Omega$ , 1/2W, Metal oxide film [D][G][W] |
| <b>Switches</b>   |           |  |
| S301, S302        | 25035588  | NPS-142-L550                                   |
| S701              | 25035548  | NPS-111-S510                                   |
| <b>Holder</b>     |           |  |
|                   | 27190659A | (FL)   |
|                   | 27190697  | (LED-ST)                                       |

#### KEY SWITCH PC BOARD (NASW-3565-1) PARTS LIST

| CIRCUIT NO.     | PART NO. | DESCRIPTION  |
|-----------------|----------|--------------|
| <b>Diodes</b>   |          |              |
| D731, D732      | 223163   | 1SS133       |
| <b>Switches</b> |          |              |
| S702~S709       | 25035548 | NPS-111-S510 |

#### EQUALIZER CIRCUIT PC BOARD (NAETC-3566-1, NAETC-3566-1A) PARTS LIST

| CIRCUIT NO.        | PART NO.  | DESCRIPTION                       |
|--------------------|-----------|-----------------------------------|
| <b>ICs</b>         |           |                                   |
| Q101, Q102         | 22240191  | NJM4565DD                         |
| Q401               | 222840661 | 4066B                             |
| <b>Transistors</b> |           |                                   |
| Q402, Q404~Q406    | 2211255   | 2SC1815-GR                        |
| Q403               | 2211455   | 2SA1015-GR                        |
| <b>Capacitors</b>  |           |                                   |
| C103, C104         | 372121014 | 100 pF, 50V, Styrene [G][W][A][B] |
| C105, C106, C401   | 354741009 | 10 $\mu$ F, 16V, Elect.           |
| C403               |           |                                   |
| C109, C110, C117   | 354721019 | 100 $\mu$ F, 6.3V, Elect.         |
| C118               |           |                                   |
| C111, C112         | 372121814 | 180 pF, 50V, Styrene              |
| C113, C114         | 371126224 | 6200 pF, 50V, Mylar               |
| C115, C116         | 371121824 | 1800 pF, 50V, Mylar               |
| C119, C120         | 354742219 | 220 $\mu$ F, 16V, Elect.          |
| C402, C404         | 354724719 | 470 $\mu$ F, 6.3V, Elect.         |
| C406               | 354741029 | 1000 $\mu$ F, 16V, Elect.         |

| CIRCUIT NO. | PART NO.             | DESCRIPTION                          |
|-------------|----------------------|--------------------------------------|
|             | <b>Resistor</b>      |                                      |
| R421        | 442526204            | 62 $\Omega$ , 1/2W, Metal oxide film |
|             | <b>Terminal</b>      |                                      |
| P203        | 25045252             | NPJ-6PDBL124                         |
| P401        | 25045205             | NPJ-3PDYE085                         |
|             | <b>Socket ass'y</b>  |                                      |
| P402        | 2000971              | NSAS-4P923                           |
|             | <b>Jumper socket</b> |                                      |
| JL401a      | 25050270             | NSCT-6P98                            |

#### SELECTOR SWITCH CIRCUIT PC BOARD (NAAF-3567-1, NAAF-3567-1A) PARTS LIST

| CIRCUIT NO.                  | PART NO.                                  | DESCRIPTION                                       |
|------------------------------|---|---|
|                              | <b>ICs</b>                                |   |
| Q201                         | 22240079                                  | LC7821  |
| Q207, Q209                   | 22240025                                  | LC4966  |
| Q251                         | 22240050                                  | $\mu$ PC4570C                                     |
|                              | <b>Transistors</b>                        |   |
| Q801, Q804, Q805             | 2211455 or<br>2212495                     | 2SA1015-GR or<br>JA101-Q                          |
| Q802, Q803, Q806             | 2211255 or<br>2212485                     | 2SC1815-GR or<br>JC501-O                          |
|                              | <b>Diodes</b>                             |   |
| D801, D802                   | 224150562 or<br>224650562 or<br>224450562 | 05AZ5.6Y or<br>HZ5.6EB2 or<br>MTZ5.6B, Zener      |
|                              | <b>Capacitors</b>                         |   |
| C211~C214, C811<br>C251~C254 | 354780229                                 | 2.2 $\mu$ F, 50V, Elect.                          |
| C813, C816<br>C814           | 354744709<br>354780109                    | 47 $\mu$ F, 16V, Elect.<br>1 $\mu$ F, 50V, Elect. |
|                              | <b>Terminals</b>                          |   |
| P201, P202                   | 25045213                                  | NPJ-6PDBL-92                                      |
|                              | <b>Jumper sockets</b>                     |   |
| JL204a, JL301a<br>JL701a     | 25050267<br>25050270                      | NSCT-3P95<br>NSCT-6P98                            |
|                              | <b>Switch</b>                             |   |
| S201                         | 25065286                                  | NSS-22112   |

#### POWER SWITCH CIRCUIT PC BOARD (NAPS-3568-1, NAPS-3568-1A, NAPS-3568-1B, NAPS-3568-1C) PARTS LIST

| CIRCUIT NO. | PART NO.           | DESCRIPTION                   |
|-------------|--------------------|-------------------------------|
|             | <b>Diode</b>       |                               |
| D905        | 223163             | 1SS133 [D][G][W]              |
|             | <b>Capacitors</b>  |                               |
| C901, C902  | 3500065A           | 0.01 $\mu$ F, AC400V/125V, IS |
|             | <b>Switch</b>      |                               |
| S901        | 25035550           | NPS-111-L512P [D][G][W]       |
|             | <b>Terminal</b>    |                               |
|             | 25060092           | NTM-1S33                      |
|             | <b>Relay</b>       |                               |
| RL901       | 25065269           | NRL-1P5A-DC12-36ZA [D]        |
| RL901       | 25065248           | NRL-1P15A-DC12-29ZA<br>[G][W] |
|             | <b>Fuse holder</b> |                               |
| F901a       | 250113             | SN5051 [D][W]                 |
| F902a       | 25050065           | YSH4037 [G][W][A][B]          |
| F903a       | 25050065           | YSH4037 [G]                   |

#### VOLUME CONTROL CIRCUIT PC BOARD (NAETC-3569-1, NAETC-3569-1A) PARTS LIST

| CIRCUIT NO.  | PART NO.            | DESCRIPTION              |
|--------------|---------------------|--------------------------|
|              | <b>IC</b>           |                          |
| Q751         | 222963              | LB1630                   |
|              | <b>Diodes</b>       |                          |
| D752, D753   | 223163              | 1SS133                   |
|              | <b>Capacitors</b>   |                          |
| C751         | 354741009           | 10 $\mu$ F, 16V, Elect.  |
| C752         | 354780339           | 3.3 $\mu$ F, 50V, Elect. |
|              | <b>Resistors</b>    |                          |
| R361, (R362) | 5104234             | N16RGM50KA30F, Variable  |
|              | <b>Socket ass'y</b> |                          |
| P351         | 2000635A            | NSAS-4P591               |
|              | <b>Plate</b>        |                          |
|              | 27141059            |                          |

#### BUS TERMINAL PC BOARD (NAETC-3570-1, NAETC-3570-1A) PARTS LIST

| CIRCUIT NO. | PART NO.         | DESCRIPTION     |
|-------------|------------------|-----------------|
|             | <b>Mini jack</b> |                 |
| P701        | 25045172         | HSJ-1003-01-020 |

#### VIDEO TERMINAL PC BOARD (NAETC-3571-1, NAETC-3571-1A) PARTS LIST

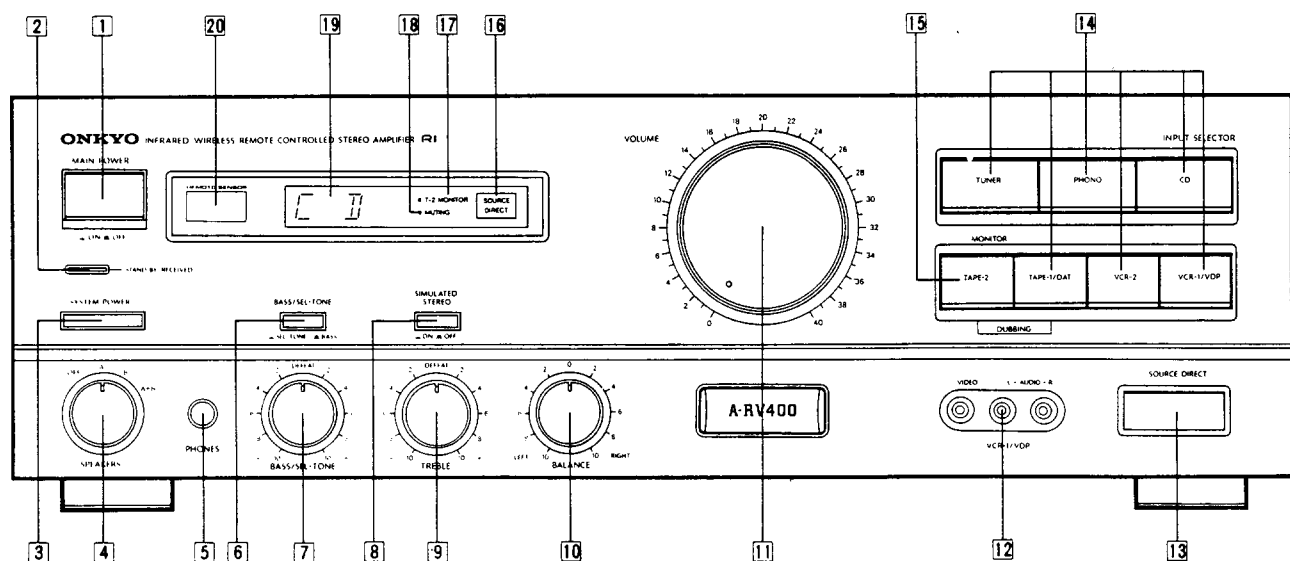
| CIRCUIT NO. | PART NO.        | DESCRIPTION  |
|-------------|-----------------|--------------|
|             | <b>Terminal</b> |              |
| P204        | 25045206        | NPJ-3PDYE086 |

#### VOLUME INDICATOR PC BOARD (NADIS-3572-1) PARTS LIST

| CIRCUIT NO. | PART NO.      | DESCRIPTION   |
|-------------|---------------|---------------|
|             | <b>Diode</b>  |               |
| D751        | 225141        | SEL2213C, LED |
|             | <b>Holder</b> |               |
|             | 27190545      | (LED)         |

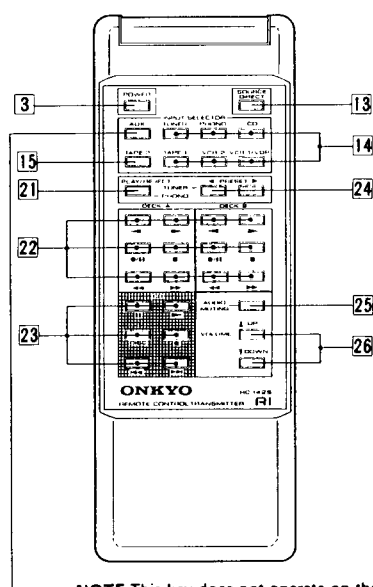
NOTE {D}: Only 120V model  
 {G}: Only 220V model  
 {W}: Only 120V/220V model  
 {A}: Only Australian model  
 {B}: Only British model

# FRONT PANEL FACILITIES



1. Main power switch (MAIN POWER)
2. Stand-by/Received indicator
3. System power button (SYSTEM POWER)
4. Speaker selector (SPEAKERS)  
OFF, A, B, A+B
5. Headphone jack (PHONES)
6. Bass/Selective tone switch (BASS/SEL-TONE)  
BASS, SEL-TONE
7. Bass control/Selective tone control knob (BASS/SEL-TONE)
8. Simulated stereo switch (SIMULATED STEREO)
9. Treble control knob (TREBLE)
10. Balance control knob (BALANCE)
11. Volume control knob (VOLUME)
12. Video cassette recorder or Video disk player input jack (VCR-1/VDP)
13. Source direct button (SOURCE DIRECT)
14. Input selector buttons (INPUT SELECTOR)  
Audio selectors ----- TUNER, PHONO, CD, TAPE-1/DAT  
Video selectors ----- VCR-1/VDP, VCR-2
15. Tape monitor button (TAPE-2/MONITOR)
16. Source direct indicator
17. T-2 Monitor indicator
18. Muting indicator
19. Input selector display
20. Remote control sensor

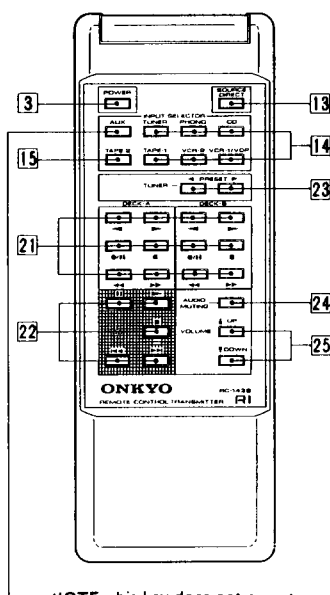
## Remote control transmitter controls (RC-142S)



NOTE: This key does not operate on the A-RV400.

- 21. Phono operation key (PLAY/REJECT)
- 22. Tape operation keys (DECK-A, DECK-B)  
REVERSE PLAY, FORWARD PLAY, REC PAUSE,  
STOP, FAST REWIND, FAST FORWARD
- 23. CD operation key (CD)  
PAUSE, PLAY, STOP, DISC, UP, DOWN
- 24. Tuner operation keys (PRESET)
- 25. Audio muting keys (AUDIO MUTING)
- 26. Volume keys (UP, DOWN)

## Remote control transmitter controls (RC143S)



NOTE: his key does not operate on the A-RV400.

- 21. Tape operation keys (DECK-A, DECK-B)  
REVERSE PLAY, FORWARD PLAY, REC PAUSE,  
STOP, FAST REWIND, FAST FORWARD
- 22. CD Operation keys (CD)  
PAUSE, PLAY, STOP, DOWN, UP
- 23. Tuner operation keys (PRESET)
- 24. Audio muting key (AUDIO MUTING)
- 25. Volume keys (UP, DOWN)

## PARTS LIST OF PACKING

## A-RV400

| REF. NO. | PART NO.            | DESCRIPTION                               |
|----------|---------------------|---|
| A851     | 29051884            | MASTER CARTON BOX                         |
| A852     | 29091322B           | PAD, LEFT                                 |
| A853     | 29091323B           | PAD, RIGHT                                |
| A854     | 261504              | W = 30 mm, PAPER TAPE                     |
| A865     | 29100063            | 580 × 750, POLY-VINYL BAG                 |
| A866     | 282301              | SEALING HOOK                              |
| A867     | 260012              | W = 50 mm, DAMPLON TAPE                   |
| A868     | 29360778            | LABEL (FLASH) [N]                         |
| A869     | 29380054            | BS-2, AC COARD TAG [B]                    |
| A900     | ACCESSORY BAG ASS'Y |   |
|          | 29341391A           | INSTRUCTION MANUAL [D][N]                 |
|          | 29341392A           | INSTRUCTION MANUAL [G][W][A][B]           |
|          | 29365019            | WARRANTY CARD [N]                         |
|          | 29365022            | WARRANTY CARD [B]                         |
|          | 29358002G           | SERVICE STATION LIST [N]                  |
|          | 291000097           | 350 × 250, POLY-VINYL BAG                 |
|          | 24140142A           | RC-142S, REMOTE CONTROL UNIT [D][N]       |
|          | 24140143            | RC-143S, REMOTE CONTROL UNIT [G][W][A][B] |
|          | 3010054             | UM-3, TOW BATTERIES                       |
|          | 2010169             | 3.5 MINI PLUG                             |
|          | 25055018            | CV-K-1, CONVERSION PLUG [W]               |
|          | 29360863            | LABEL (CAUTION) [B]                       |

## NOTE

[D]: ONLY 120V MODEL  
[G]: ONLY 220V MODEL  
[W]: ONLY 120V/220V MODEL  
[N]: ONLY U.S.A. MODEL  
[A]: ONLY AUSTRALIAN MODEL  
[B]: ONLY BRITISH MODEL

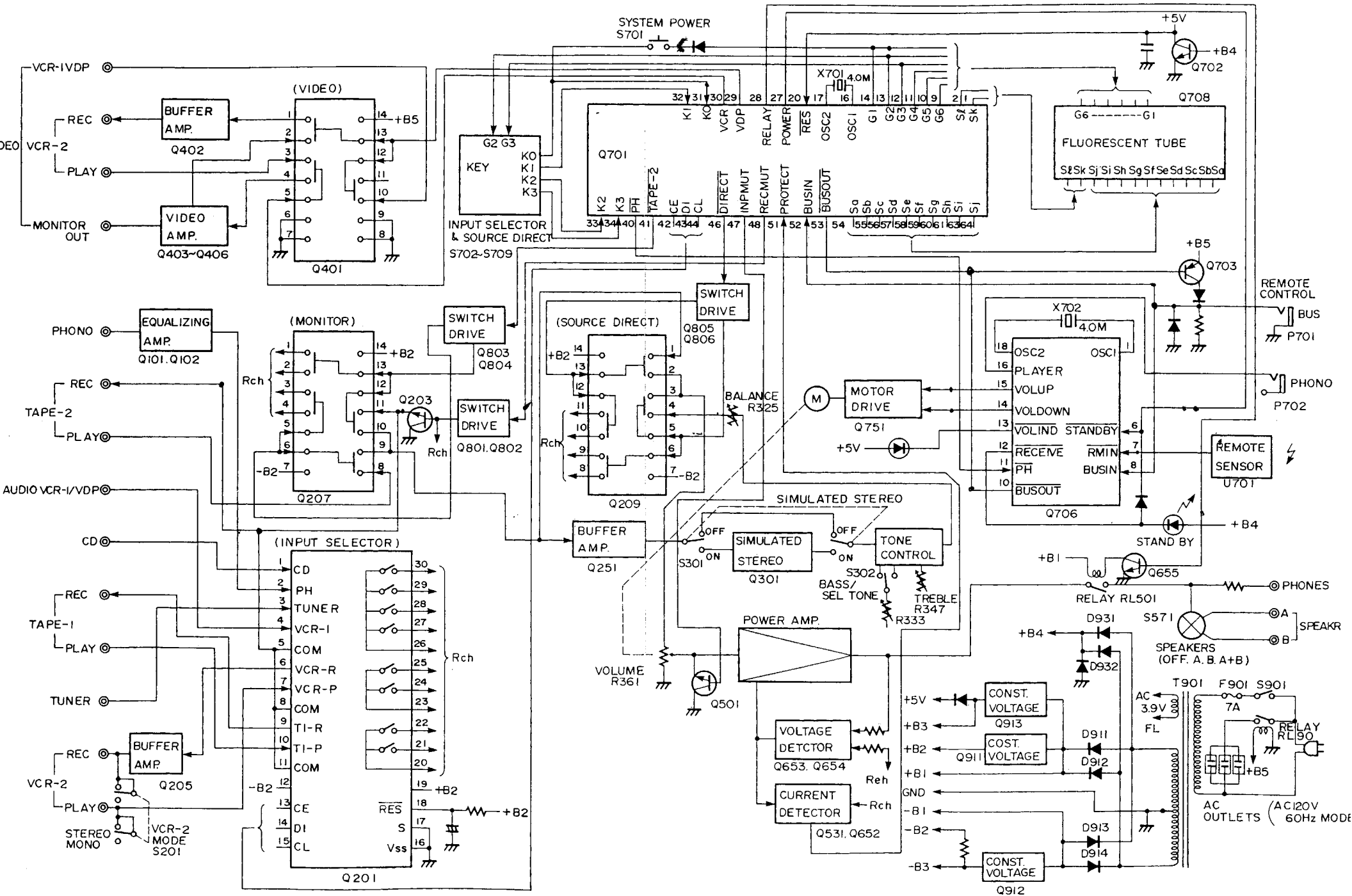
## A-RV400M

| REF. NO. | PART NO.            | DESCRIPTION                           |
|----------|---------------------|---------------------------------------|
| A851     | 29051952            | MASTER CARTON BOX                     |
| A852     | 29091322B           | PAD, LEFT                             |
| A853     | 29091323B           | PAD, RIGHT                            |
| A854     | 261504              | W = 30 mm, PAPER TAPE                 |
| A865     | 29100063            | 580 × 750, POLY-VINYL BAG             |
| A866     | 282301              | SEALING HOOK                          |
| A867     | 260012              | W = 50 mm, DAMPLON TAPE               |
| A868     | 29360778            | LABEL (FLASH) [N]                     |
| A900     | ACCESSORY BAG ASS'Y |                                       |
|          | 29341391A           | INSTRUCTION MANUAL                    |
|          | 29365019            | WARRANTY CARD [N]                     |
|          | 29358002G           | SERVICE STATION LIST [N]              |
|          | 291000097           | 350 × 250, POLY-VINYL BAG             |
|          | 24140035            | RC-AV20M, REMOTE CONTROL UNIT         |
|          | 29341378            | INSTRUCTION MANUAL FOR REMOTE CONTROL |
|          | 29355154            | CAUTION FOR REMOTE CONTROL            |
|          | 3010109             | AM-4, FOUR BATTERIES                  |
|          | 2010169             | 3.5 MINI PLUG                         |

## NOTE

[N]: ONLY U.S.A. MODEL

## BLOCK DIAGRAM





# SCHEMATIC DIAGRAM (120V Model)

